2.2 Inquiry Sheet Name:\_\_\_\_\_\_\_\_\_\_\_\_\_

HEAT AND TEMPERATURE

1. What is temperature?
2. What is heat?
3. Which object do you think contains the most heat, a boiling pot of water or a gigantic iceberg? Why do you think this?
4. What is specific heat capacity?
5. What is the symbol for specific heat capacity?
6. Does water have a high specific heat capacity or a low specific heat capacity?
7. In the morning, which direction does the sea breeze blow? Why does it blow in this direction?

Diagram of morning sea breeze:

1. In the evening, which direction does the sea breeze blow? Why does it blow in this direction?

Diagram of evening sea breeze:

1. What is energy?

Energy is the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ to do \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. What is the name of stored energy?
2. What is the name of moving energy?
3. Energy can change! The law of Conservation of Energy states:

Energy can be neither\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_nor \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. It can only change\_\_\_\_\_\_\_\_\_\_\_.

1. Heat is energy that transfers from one substance to another because of a difference in kinetic energy of the particles that a substance contains.

Heat transfers from\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. What are the three ways that heat can be transfered?